



1-800-SAMSUNG(1-800-726-7864)

**U.S.A**

**Samsung Electronics America  
Service Division**

400 Valley Road, Suite 201  
Mount Arlington, NJ 07856

[www.samsungusa.com](http://www.samsungusa.com)

**Canada**

**Samsung Electronics Canada Inc.  
Samsung Customer Care**

7037 Financial Drive  
Mississauga, Ontario  
L5N 6R3

[www.samsung.ca](http://www.samsung.ca)

**SAMSUNG**

**LTN1535  
LTN1735  
LTP2035**

**TFT-LCD TELEVISION**

**Owner's  
Instructions**

This device is a Class B digital apparatus.

BN68-00573A-02

# Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



**CAUTION****RISK OF ELECTRIC SHOCK DO NOT OPEN**

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol indicates high voltage is present inside. It is dangerous to make any kind of contact with any inside part of this product.



This symbol alerts you that important literature concerning operation and maintenance has been included with this product.



*Note to CATV system installer:* This reminder is provided to call CATV system installer's attention to Article 820-40 of the National Electrical Code (Section 54 of Canadian Electrical Code, Part I), that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

*Caution: FCC/CSA regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.*

*Caution: To prevent electric shock, match the wide blade of plug to the wide slot, and fully insert the plug.*

*Attention: pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.*

*Important:* One Federal Court has held that unauthorized recording of copyrighted TV programs is an infringement of U.S. copyright laws. Certain Canadian programs may also be copyrighted and any unauthorized recording in whole or in part may be in violation of these rights.

Do not display a still image (such as on a video game or when hooking up a DVD to this LCD TV) on the Color TFT-LCD (Thin Film Transister Liquid Crystal Display) panel for a long time as it can cause screen image retention. This image retention is also known as "screen burn". To avoid such image retention, reduce the degree of brightness and contrast of this screen when displaying a still image.

**WARNING: To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.**

As an ENERGY STAR Partner,  
Samsung Electronics America, Inc. has determined that this product or product model meets the ENERGY STAR guidelines for energy efficiency.

# FCC Information

## User Information

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. If necessary, consult your dealer or an experienced radio/television technician for additional suggestions.

You may find the booklet called How to Identify and Resolve Radio/TV Interference Problems helpful. This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office, Washington, DC 20402, Stock Number 004-000-00345-4 .

## Warning

In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

User must use shielded signal interface cables to maintain FCC compliance for the product.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following

two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

The party responsible for product compliance:

SAMSUNG ELECTRONICS CO., LTD  
America QA Lab of Samsung  
3351 Michelson Drive, Suite #290,  
Irvine, CA 92612, U.S.A

Provided with this TV is a detachable power supply cord with IEC320 style terminations.

For 110 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type (parallel blades) plug cap. For 230 Volt applications use only UL Listed Detachable power supply cord with NEMA configuration 6015P type (tandem blades) plug cap.

## FCC captioning

This television receiver provides display of television closed captioning in accordance with Section 15.119 of the FCC rules.

## CONTENTS

### Chapter 1: Your New TV

List of Features .....	1
List of Parts .....	1
Familiarizing Yourself with Your New TV .....	2
Top Buttons .....	2
Rear Panel Jacks .....	3
Remote Control .....	4
Installing Batteries in the Remote Control .....	5

### Chapter 2: Installation

Connecting VHF and UHF Antennas .....	6
Antennas with 300-ohm Flat Twin Leads .....	6
Antennas with 75-ohm Round Leads .....	7
Separate VHF and UHF Antennas .....	7
Connecting Cable TV .....	7
Cable without a Cable Box .....	7
Connecting to a Cable Box that Descrambles All Channels ..	8
Connecting to a Cable Box that Descrambles Some Channels .....	8
Connecting a VCR .....	10
Connecting an S-VHS VCR .....	11
Connecting a DVD Player .....	12

### Chapter 3: Special Features

Turning the TV On and Off .....	13
Changing Channels .....	13
Adjusting the Volume .....	14
Viewing the Display .....	14

### Chapter 4: Operation

Plug & Play Feature .....	15
Memorizing the Channels .....	16
Selecting the Video Signal-source .....	16
Storing Channels in Memory (Automatic Method) .....	17
ADD and DEL Channels (Manual Method) .....	18
To Select TV/Input .....	18
To Edit the Input Source Name .....	19
Using Automatic Picture Settings .....	20
Customizing the Picture .....	21
Using Automatic Sound Settings .....	22
Selecting a Menu Language .....	23
Setting the Blue Screen Mode .....	24

## CONTENTS

Fine Tuning Channels .....	25
Changing the Screen Size .....	26
Freezing the Picture .....	26
Adjusting the Color Tone .....	27
To select the Sound option .....	28
Setting the Clock .....	29
Setting the On/Off Timer .....	30
Setting the Sleep Timer .....	31
Viewing Closed Captions .....	32
Using the V-Chip .....	33
Setting Up Your Personal ID Number (PIN) .....	33
How to Enable/Disable the V-Chip .....	34
How to Set up Restrictions Using the “TV guidelines” ....	34
How to Set up Restrictions using the MPAA Ratings: G, PG, PG-13, R, NC-17, X .....	36
How to Reset the TV after the V-Chip Blocks a Channel (“Emergency Escape”) .....	37

## Chapter 5: Troubleshooting

Identifying Problems .....	38
----------------------------	----

## Appendix

Attaching a Wall or Arm mounting device .....	39
Installing VESA compliant mounting devices .....	40
Using the Anti-Theft Kensington Lock .....	41
Retractable Stand .....	41
Cleaning and Maintaining Your TV .....	42
Specifications .....	43

# Chapter One

## YOUR NEW TV

### List of Features

Your TV was designed with the latest technology. This TV is a high-performance unit that includes the following special features:

- Easy-to-use remote control
- Easy-to-use on-screen menu system
- Automatic timer to turn the TV on and off
- Adjustable picture and sound settings that can be stored in the TV's memory
- Automatic channel tuning for up to 181 channels
- A special filter to reduce or eliminate reception problems
- Fine tuning control for the sharpest picture possible
- A built-in multi-channel sound decoder for stereo and bilingual listening
- Built-in, dual channel speakers
- Headphone jack for private listening

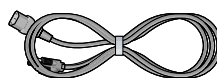
### List of Parts

Please make sure the following items are included with your LCD TV.

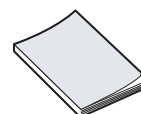
If any items are missing, contact your dealer.



Remote Control  
(BN59-00376B) &  
Batteries (AAA x 2)



POWER CORD  
(BH39-10339X)



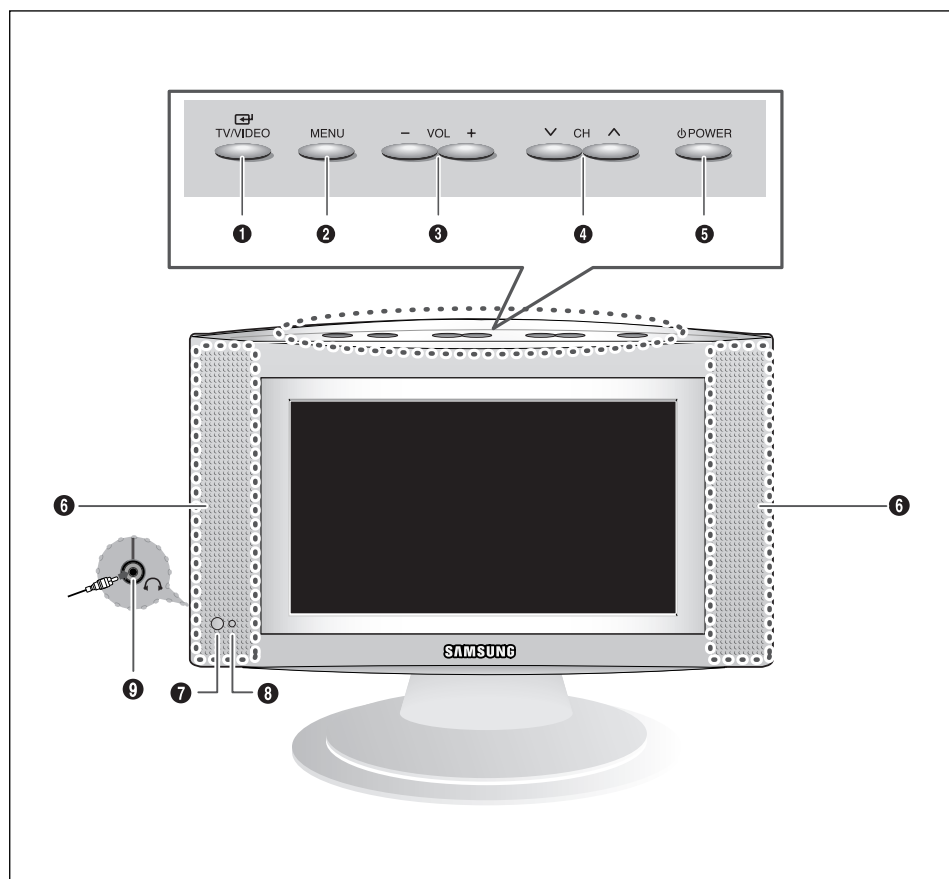
Owner's  
Instructions

## YOUR NEW TV

# Familiarizing Yourself with Your New TV

## Top Buttons

The buttons on the top panel control your TV's basic features, including the on-screen menu. To use the more advanced features, you must use the remote control.



### 1 TV/VIDEO

Displays a menu of all of the available input sources ( TV, VIDEO, S-VIDEO, Component ).

### 2 MENU

Press to see an on-screen menu of your TV's features.

### 3 - VOL +

Press to increase or decrease the volume. Also used to select items on the on-screen menu.

### 4 ∨ CH ∧

Press to change channels. Also press to highlight various items on the on-screen menu.

### 5 POWER

Press to turn the TV on and off.

### 6 SPEAKERS

### 7 REMOTE CONTROL SENSOR

Aim the remote control towards this spot on the TV.

### 8 POWER INDICATOR

Lights up when you turn the power off.

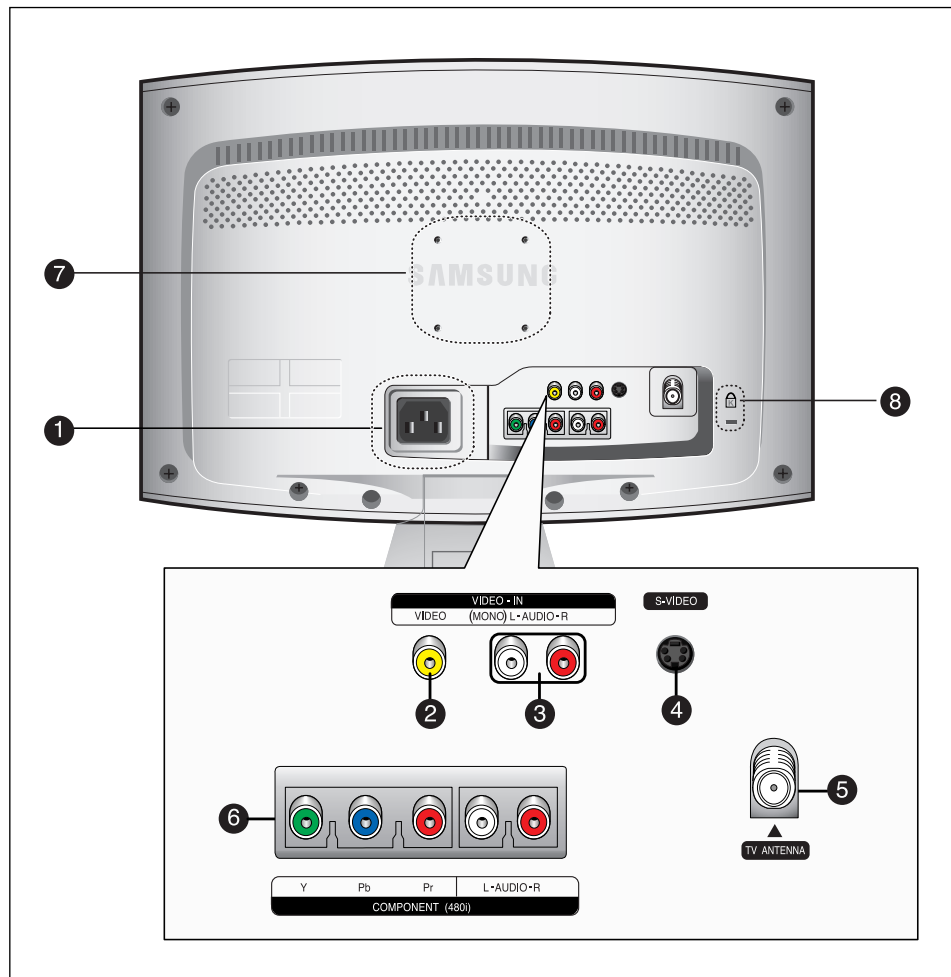


## YOUR NEW TV

### Rear Panel Jacks

Use the rear panel jacks to connect an A/V component that will be connected continuously, such as a VCR or a DVD player.

For more information on connecting equipment, see pages 6-12.



**1 POWER INPUT**

**2 VIDEO INPUT**

Connect a video signal from a camcorder or VCR.

**3 AUDIO INPUT**

Connect audio signal from a camcorder or VCR.

**4 SUPER VIDEO INPUT**

Connect S-Video signal from a camcorder or VCR.

**5 TV ANTENNA**

Connect to an antenna or to a cable TV system.

**6 COMPONENT**

Connect component video/audio from a DVD player.(only 480i)

**7 WALL MOUNT HOLES**

**8 KENSINGTON LOCK**

## YOUR NEW TV

### Remote Control

You can use the remote control up to a distance of about 23 feet from the TV.  
When using the remote, always point it directly at the TV.

- 1 POWER** (See Page 13)  
Turns the TV on and off.

- 2 NUMBER BUTTONS**  
Press to select channels directly on the TV.

- 3 +100**  
Press to select channels over 100. For example, to select channel 121, press "+100," then press "2" and "1."

- 4 CH  $\wedge$  and  $\vee$  CH (Channel Up/Down)**  
Press CH  $\wedge$  or CH  $\vee$  to change channels.  
**VOL+ and VOL-**  
Press to increase or decrease the volume.

- 5 MUTE** (See Page 14)  
Press to temporarily cut off the sound.

- 6 SLEEP** (See Page 31)  
Press to select a time for the TV to turn off automatically.

- 7 MENU**  
Displays the main on-screen menu.

- 8 UP/DOWN/LEFT/RIGHT/ENTER**  
Use to select on-screen menu items and change menu values. (The remote control will only function with VCR or DVD units that are compatible with the LCD TV.)

- 9 AUTO PROG.**  
Use to store the broadcast/cable channels that you receive.

- 10 ADD/DEL**  
Use to store and delete channels to/from memory.

- 11 P.MODE**  
Adjust the TV picture by selecting one of the preset factory settings.

- 12 S.MODE**  
Adjust the TV sound by selecting one of the preset factory settings.

- 13 PRE-CH**  
Tunes to the previous channel.

- 14 TV/VIDEO**  
Press to display all of the available video sources.

- 15 INFO DISPLAY**  
Use to see information on the current broadcast.

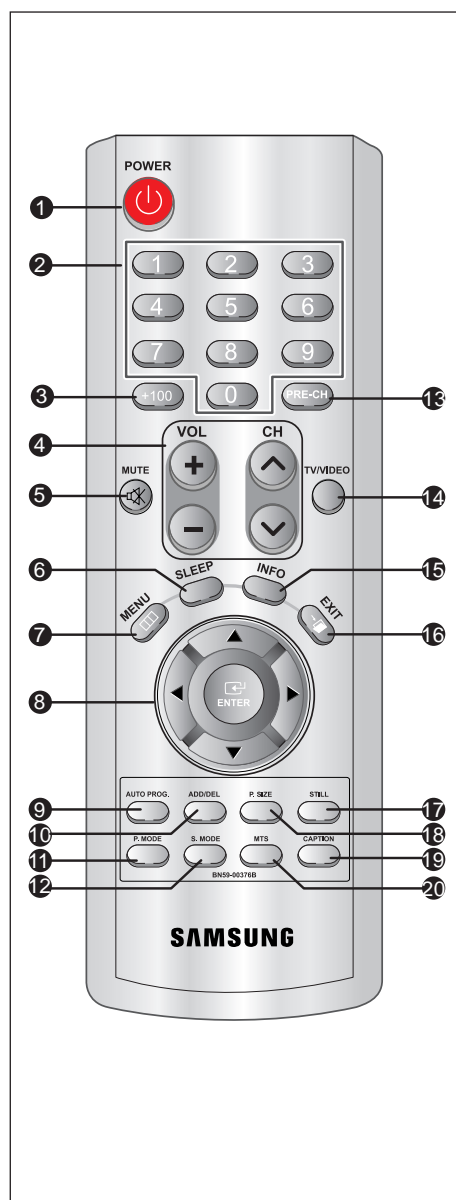
- 16 EXIT**  
Press the menu to exit.

- 17 STILL**  
Press to stop the action during a particular scene. Press again to resume normal video.

- 18 P.SIZE**  
Press to change the screen size.

- 19 CAPTION**  
Press to set caption on/off.

- 20 MTS (Multichannel Television Stereo)**  
Press to choose stereo, mono or Separate Audio Program (SAP broadcast).

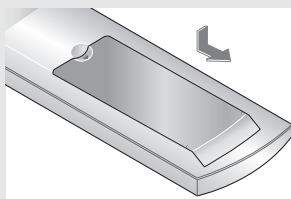


## YOUR NEW TV

### Installing Batteries in the Remote Control

**1**

Slide the cover out completely.

**2**

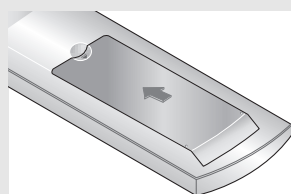
Install two AAA size batteries.



◀ Make sure to match the “+” and “-” ends of the batteries with the diagram inside the compartment.

**3**

Replace the cover.



◀ Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time.

The remote control can be used up to about 23 feet from the TV.

(Assuming typical TV usage, the batteries last for about one year.)

### If remote control doesn't work

Check the following:

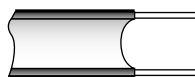
1. Is the TV power switch on?
2. Are the plus and minus ends of the batteries reversed?
3. Did the battery run out?
4. Is the power out, or is the power cord unplugged?
5. Is there a special fluorescent light or a neon sign nearby?

# Chapter Two

## INSTALLATION

### Connecting VHF and UHF Antennas

If your antenna has a set of leads that look like this, see “Antennas with 300-ohm Flat Twin Leads”, below.



If your antenna has one lead that looks like this, see “Antennas with 75-ohm Round Leads”, on page 7.



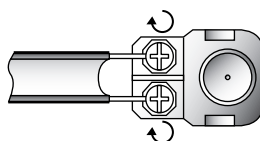
If you have two antennas, see “Separate VHF and UHF Antennas”, on page 7.

#### Antennas with 300-ohm Flat Twin Leads

If you are using an off-air antenna (such as a roof antenna or “rabbit ears”) that has 300-ohm twin flat leads, follow the directions below.

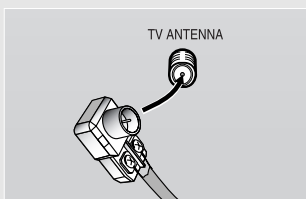
**1**

Place the wires from the twin leads under the screws on a 300-75 ohm adaptor (not supplied). Use a screwdriver to tighten the screws.



**2**

Plug the adaptor into the TV ANTENNA terminal on the bottom of the back panel.

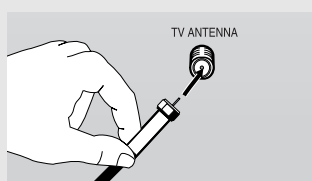


## INSTALLATION

### Antennas with 75-ohm Round Leads

**1**

Plug the antenna lead into the TV ANTENNA terminal on the bottom of the back panel.

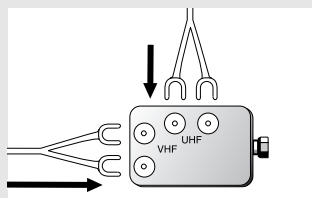


### Separate VHF and UHF Antennas

If you have two separate antennas for your TV (one VHF and one UHF), you must combine the two antenna signals before connecting the antennas to the TV. This procedure requires a an optional combiner-adaptor (available at most electronics shops).

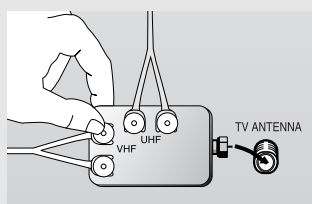
**1**

Connect both antenna leads to the combiner.



**2**

Plug the combiner into the TV ANTENNA terminal on the bottom of the rear panel.



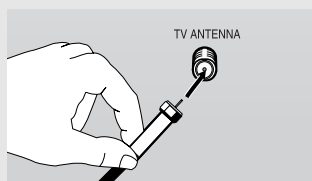
### Connecting Cable TV

To connect to a cable TV system, follow the instructions below.

#### Cable without a Cable Box

**1**

Plug the incoming cable into the TV ANTENNA terminal on back of the TV.



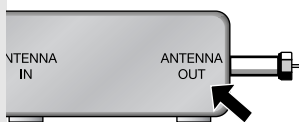
◀ Because this TV is cable-ready, you do not need a cable box to view unscrambled cable channels.

## INSTALLATION

### Connecting to a Cable Box that Descrambles All Channels

**1**

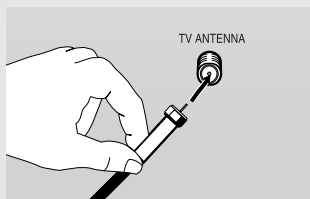
Find the cable that is connected to the ANTENNA OUT terminal on your cable box.



◀ This terminal might be labeled “ANT OUT”, “VHF OUT”, or simply, “OUT”.

**2**

Connect the other end of this cable to the TV ANTENNA terminal on the back of the TV.

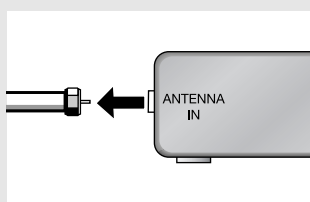


### Connecting to a Cable Box that Descrambles Some Channels

If your cable box descrambles only some channels (such as premium channels), follow the instructions below. You will need a two-way splitter, an RF (A/B) switch, and four lengths of coaxial cable. (These items are available at most electronics stores.)

**1**

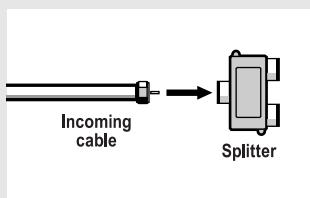
Find and disconnect the cable that is connected to the ANTENNA IN terminal on your cable box.



◀ This terminal might be labeled “ANT IN”, “VHF IN”, or simply, “IN”.

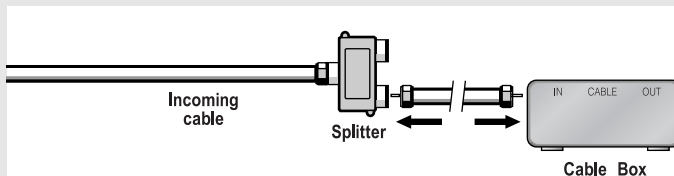
**2**

Connect this cable to a two-way splitter.



**3**

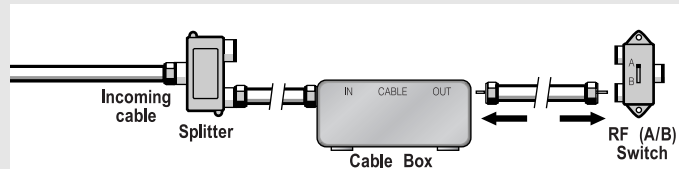
Connect a coaxial cable between an OUTPUT terminal on the splitter and the IN terminal on the cable box.



## INSTALLATION

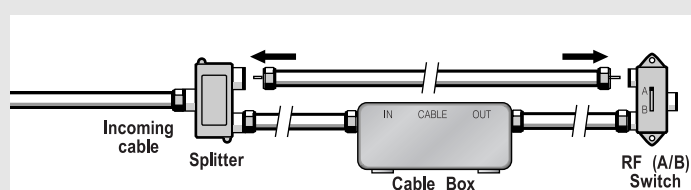
### 4

Connect a coaxial cable between the ANTENNA OUT terminal on the cable box and the B-IN terminal on the A/B switch.



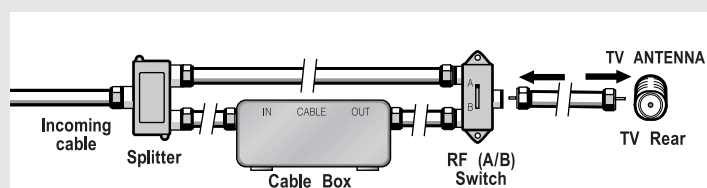
### 5

Connect another cable between the other OUT terminal on the splitter and the A-IN terminal on the RF (A/B) switch.



### 6

Connect the last coaxial cable between the OUT terminal on the RF (A/B) switch and the VHF/UHF terminal on the rear of the TV.



After you've made this connection, set the A/B switch to the "A" position for normal viewing. Set the A/B switch to the "B" position to view scrambled channels. (When you set the A/B switch to "B," you will need to tune your TV to the cable box's output channel, which is usually channel 3 or 4.)

## INSTALLATION

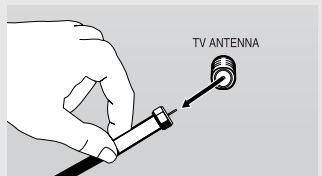
### Connecting a VCR

These instructions assume that you have already connected your TV to an antenna or a cable TV system (according to the instructions on pages 6-8).

Skip step 1 if you have not yet connected to an antenna or a cable system.

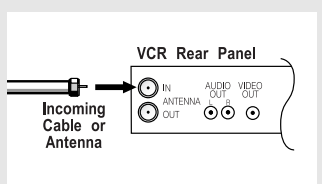
**1**

Unplug the cable or antenna from the back of the TV.



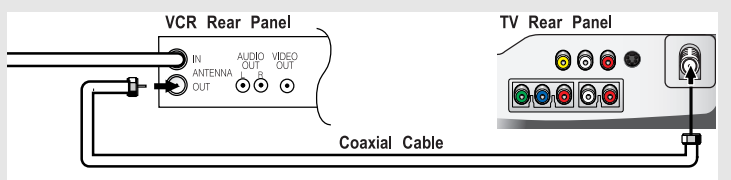
**2**

Connect the cable or antenna to the ANTENNA IN terminal on the back of the VCR.



**3**

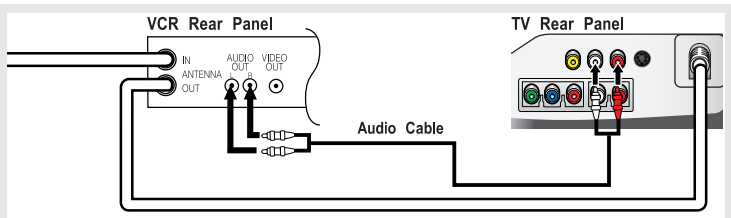
Connect a coaxial cable between the ANTENNA OUT terminal on the VCR and the antenna terminal on the TV.



A coaxial cable is usually included with a VCR. (If not, check your local electronics store).

**4**

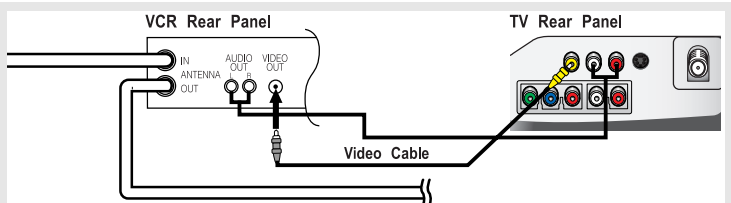
Connect a set of audio cables between the AUDIO OUT jacks on the VCR and the AUDIO jacks on the TV.



If you have a “mono” (non-stereo) VCR, use the Y-connector (not supplied) to hook up to the left and right audio input jacks of the TV. If your VCR is stereo, you must connect two cables.

**5**

Connect a video cable between the VIDEO OUT jack on the VCR and the VIDEO jack on the TV.



Follow the instructions in “Viewing a VCR or Camcorder Tape” to view your VCR tape.

# Each external input source device has a different back panel configuration.



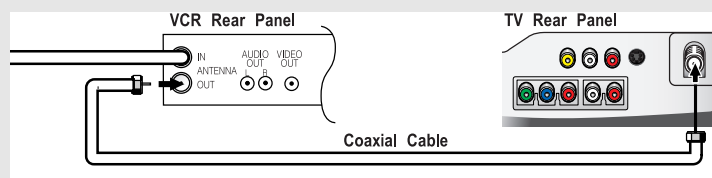
## INSTALLATION

### Connecting an S-VHS VCR

Your Samsung TV can be connected to an S-Video signal from an S-VHS VCR.  
(This connection delivers a better picture as compared to a standard VHS VCR.)

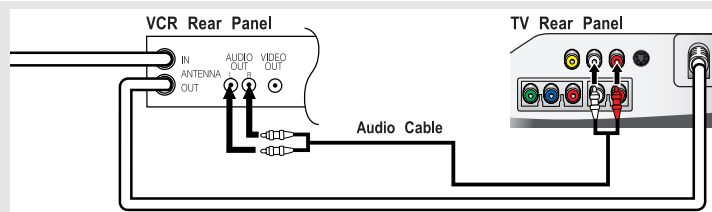
**1**

To begin, follow steps 1–3 in the previous section to connect the antenna or cable to your VCR and your TV.



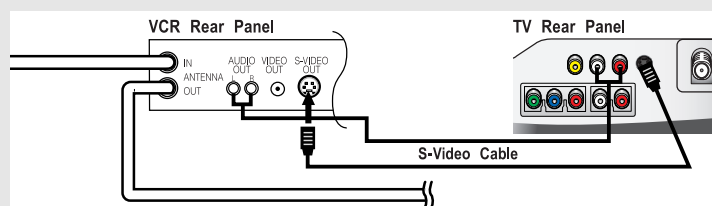
**2**

Connect a set of audio cables between the AUDIO OUT jacks on the VCR and the AUDIO INPUT jacks on the TV.



**3**

Connect an S-video cable between the S-VIDEO OUT jack on the VCR and the S-VIDEO INPUT jack on the TV.



An S-video cable is usually included with an S-VHS VCR.

(If not, check your local electronics store.)

# Each external input source device has a different back panel configuration.

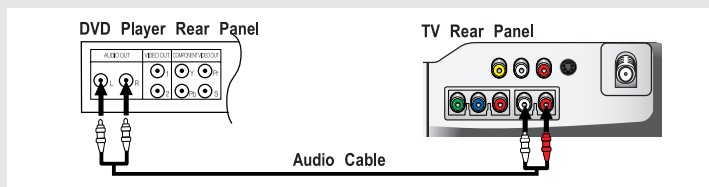
## INSTALLATION

### Connecting a DVD Player

The rear panel jacks on your TV make it easy to connect a DVD player to your TV.

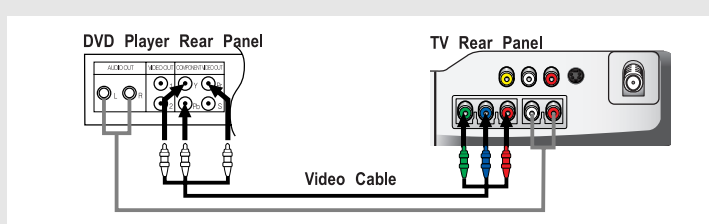
**1**

Connect a set of audio cables between the L, R AUDIO INPUT jacks on the TV and the AUDIO OUT jacks on the DVD player.



**2**

Connect a video cable between the COMPONENT (Y, Pb, Pr) jacks on the TV and the Y, Pb, Pr jacks on the DVD player.



Note: For an explanation of Component video, see your DVD player owner's manual.  
The Component input on the TV is 480i only.

# Each external input source device has a different back panel configuration.

# Chapter Three

## SPECIAL FEATURES

### Turning the TV On and Off

Press the **POWER** button.  
You can also use the Power button on the top panel.

### Changing Channels

#### Using the Channel Buttons

##### 1

Press the **CH**  $\wedge$  /  $\vee$  buttons to change channels.

When you press the **CH**  $\wedge$  /  $\vee$  buttons, the TV changes channels in sequence. You will see all the channels that the TV has memorized. (The TV must have memorized at least three channels.) You will not see channels that were either erased or not memorized.

#### Using the PRE-CH Button to select the Previous Channel

##### 1

Press the **PRE-CH** button.  
The TV will switch to the last channel viewed.

To quickly switch between two channels that are far apart, tune to one channel, then use the number button to select the second channel. Then, use the PRE-CH button to quickly alternate between them.

## SPECIAL FEATURES

### Adjusting the Volume

#### 1


Press the **VOL +/-** buttons to increase or decrease the volume.

#### Using Mute

At any time, you can temporarily cut off the sound using the Mute button.

#### 1

Press **MUTE** and the sound cuts off.

The word “ Mute ” will appear in the lower-left corner of the screen.

#### 2

To turn mute off, press the **MUTE** button again, or simply press the **VOL +/-** buttons.

### Viewing the Display

The display identifies the current channel and the status of certain audio-video settings.

#### 1

Press the **INFO** button on the remote control.

The TV will display the channel, the type of sound, and the status of certain picture and sound settings.

Air 22	
Picture Mode	Dynamic
Sound Mode	Standard
MTS	Mono
Caption	On
Clock	12:00 am

- ◀ The on-screen displays disappear after about ten seconds.
- ◀ Press the button once more or wait approximately 10 seconds and it disappears automatically.
- ◀ Allows the user to adjust the settings according to his/her preference and shows the current settings.

# Chapter Four

## OPERATION

### Plug & Play Feature

When the TV is initially powered On, two basic customer settings proceed automatically and subsequently: Setting Auto program and Clock.


#### 1


Press the **POWER** button on the remote control.

Plug & Play



The message "Plug & Play" is displayed.

#### 2

Press the **UP/DOWN ▲ ▼** buttons to select "English", then press the **ENTER**  button.



Press the **UP/DOWN ▲ ▼** buttons to select "Air", then press the **ENTER**  button.

Language	
English	
Français	
Español	
Português	


◀ Move     Enter     Stop


  

Air/CATV	
Air	
STD	
HRC	
IRC	



◀ Move     Enter     Stop

#### 3

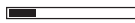
Press the **ENTER**  button. The TV will begin memorizing all of the available channels.



Press the **ENTER**  button to stop.

Auto Program	
Antenna Input Check	
<b>Start</b>	<b>Exit</b>

◀ Move     Enter     Clock

Auto Program	
	Air 22
<b>Stop</b>	<b>Exit</b>

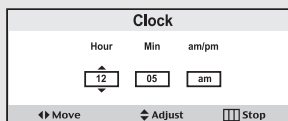

◀ Move     Enter     Clock

#### 4

Press the **LEFT/RIGHT ◀ ▶** buttons to move to the hour or minute. Set the hour or minute by pressing the **UP/DOWN ▲ ▼** buttons.

Press the **ENTER**  button.

Clock		
Hour	Min	am/pm
12	05	am

◀ Move     Adjust     Stop

#### 5

The message "Enjoy Your Watching." is displayed.

Enjoy Your Watching

## OPERATION

### Memorizing the Channels

Your TV can memorize and store all of the available channels for both “off-air” (antenna) and cable channels. After the available channels are memorized, use the CH  $\vee$  and CH  $\wedge$  buttons to scan through the channels. This eliminates the need to change channels by entering the channel digits. There are three steps for memorizing channels: selecting a broadcast source, memorizing the channels (automatic) and adding and deleting channels (manual).

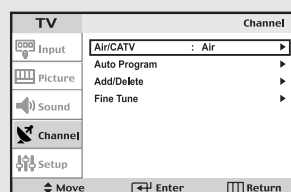
#### Selecting the Video Signal-source

Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e., an antenna or a cable system).

#### 1

Press the **MENU** button to display the menu.

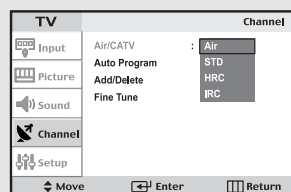
Press the **UP/DOWN**  $\blacktriangle$   $\blacktriangledown$  buttons to select “Channel”, then press the **ENTER**  $\square$  button.



#### 2

Repeatedly press the **ENTER**  $\square$  button to cycle through these choices: Air, STD, HRC or IRC (all cable TV).

Press the **UP/DOWN**  $\blacktriangle$   $\blacktriangledown$  buttons to select the Video signal source, then press the **ENTER**  $\square$  button.



Note : STD, HRC and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area.

At this point the signal source has been selected.  
Proceed to “Storing Channels in Memory” (next page).


## OPERATION

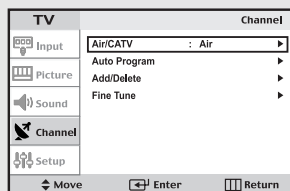
### Storing Channels in Memory (Automatic Method)

**1**

First, select the correct signal source (Air, STD, HRC, IRC). See steps 1~2 on previous page.

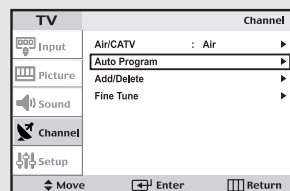
Press the **MENU** button.

Press the **UP/DOWN** ▲ ▼ buttons to select "Channel", then press the **ENTER**  button.




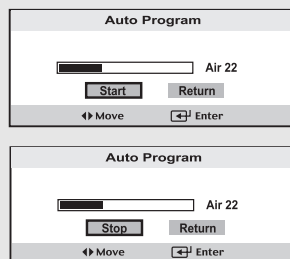
**2**

Press the **UP/DOWN** ▲ ▼ buttons to select "Auto Program".



**3**


Press the **ENTER**  button. The TV will begin memorizing all of the available channels.



**4**

After all the available channels are stored, the Auto Program menu reappears. Press the EXIT button.

◀ The TV automatically cycles through all of the available channels and stores them in memory. This takes about one to two minutes.

Press **ENTER**  at any time to interrupt the memorization process and return to the CHANNEL menu.

### To check the channels stored in memory

Press the CH( ▼/▲ )button.

- Only the channels stored in memory are selected.

### To select channels over 100

Ex) Press  →  →  to select channel 108.

## OPERATION

### ADD and DEL Channels (Manual Method)

#### 1

Use the number buttons to directly select the channel to Add or Delete.

Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲ ▼ buttons to select "Channel", then press the **ENTER** [Enter] button.

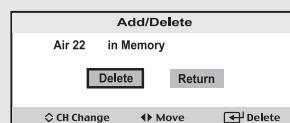
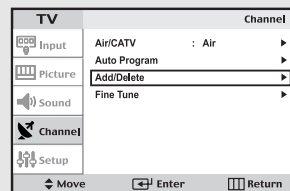
Press the **UP/DOWN** ▲ ▼ buttons to select "Add/Delete".

Press the **ENTER** [Enter] button.

Press the **LEFT/RIGHT** ◀ ▶ buttons to select "Add" or "Delete".

Press the **ENTER** [Enter] button.

Press the EXIT button.



#### 2(Alternate method)

Press the **ADD/DEL** button.

Repeatedly pressing **ENTER** [Enter] will alternate between "Add" and "Delete".

Press the **LEFT/RIGHT** ◀ ▶ buttons to select Exit, then press **ENTER** [Enter] to exit.

You can view any channel (including an erased channel) by using the number buttons on the remote control.

### To Select TV/Input

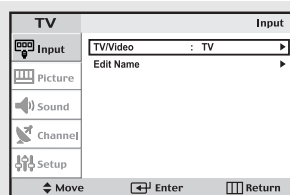
Use to select TV or other external input sources connected to the TV.

Use to select the screen of your choice.

#### 1

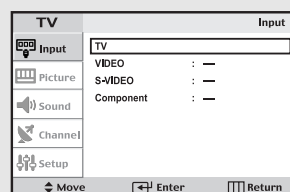
Press the **MENU** button to display the on-screen menu.

Press the **ENTER** [Enter] button.



#### 2

Press the **ENTER** [Enter] button to select "TV", then press the **ENTER** [Enter] button.



#### 3

Press the **UP/DOWN** ▲ ▼ buttons to select the Input source, then press **ENTER** [Enter].



## OPERATION

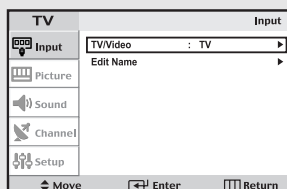
### To Edit the Input Source Name

Name the input device connected to the input jacks to make your input source selection easier.



#### 1

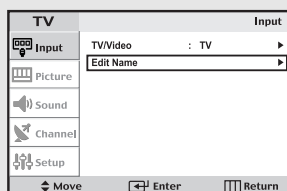
Press the **MENU** button to display the on-screen menu.



Press **ENTER** .

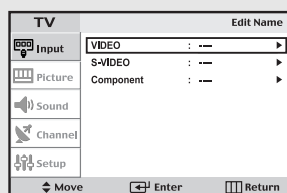


#### 2



Press the **UP/DOWN**  buttons to select "Edit Name", then press the **ENTER**  button.

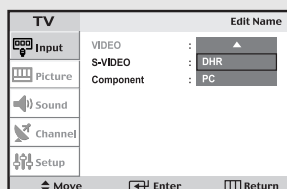
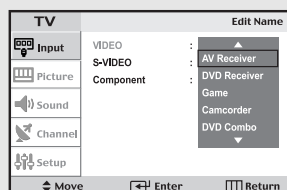
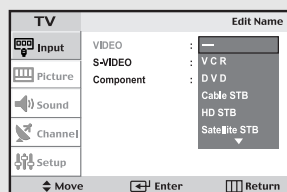


Press the **UP/DOWN**  buttons to select "Video", "S-Video" or "Component", depending on what you have connected. Press the **ENTER**  button.



#### 3

Press the **UP/DOWN**  buttons repeatedly to select the correct input source name, then press **ENTER** .



## OPERATION

### Using Automatic Picture Settings

Your TV has five automatic picture settings (“Dynamic”, “Standard”, “Movie”, “Custom” and “Auto”) that are preset at the factory. You can activate either Dynamic, Standard, or Movie by pressing P.MODE (or by making a selection from the menu).

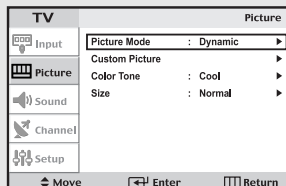
Or, you can select “Custom” which automatically recalls your personalized picture settings.

#### 1

Press the **MENU** button to display the menu.

Press the **UP/DOWN ▲ ▼** buttons to select “Picture”, then press the **ENTER** button.

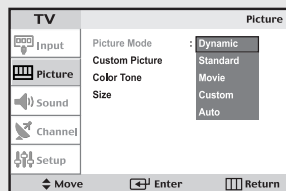
Press the **UP/DOWN ▲ ▼** buttons to select “Picture mode”, then press the **ENTER** button.



#### 2

Press the **UP/DOWN ▲ ▼** buttons to select the “Dynamic”, “Standard”, “Movie”, “Custom” or “Auto” picture setting.

Press **ENTER**.  
Press **MENU** twice to exit.



#### Alternate method:

Simply press the **P.MODE** button on the remote control to select one of the standard picture settings.

- Choose *Dynamic* to increase the clarity and sharpness of the picture.
- Choose *Standard* for the standard factory settings.
- Choose *Movie* when viewing the movie.
- Choose *Custom* if you want to adjust the settings according to personal preference (see “Customizing the Picture, page 21).
- Choose *Auto* if you want contrast and brightness to be set automatically according to channel conditions.


## OPERATION

### Customizing the Picture

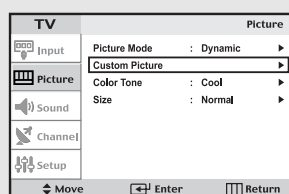
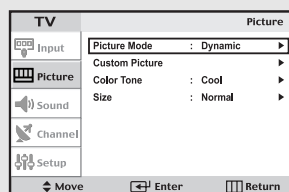
You can use the on-screen menus to change the contrast, brightness, sharpness, color and tint according to personal preference.  
(Alternatively, you can use one of the “automatic” settings. See previous page.)

#### 1


Press the **MENU** button to display the menu.

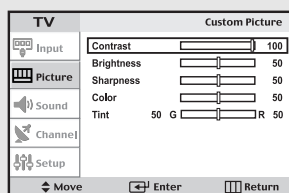
Press the **UP/DOWN ▲ ▼** buttons to select “Picture”, then press the **ENTER**  button.

Press the **UP/DOWN ▲ ▼** buttons to select “Custom picture”, then press the **ENTER**  button.



#### 2

Press the **UP/DOWN ▲ ▼** buttons to select a particular item, then press **ENTER** .

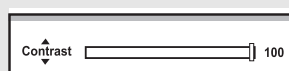


#### 3

Press the **LEFT/RIGHT ◀ ▶** buttons to increase or decrease the value of a particular item.

For example, if you select “Contrast”, pressing **RIGHT ▶** increases it.

Press the **MENU** button to exit.




## OPERATION


### Using Automatic Sound Settings

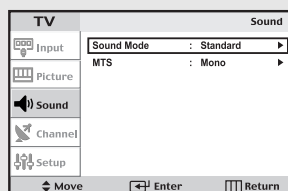
Your TV has two automatic sound settings (“Standard”, “Speech”) that are preset at the factory. You can activate any of them by pressing the S.MODE button (or by making a selection from the on-screen menu).

# 1

Press the **MENU** button to display the menu.

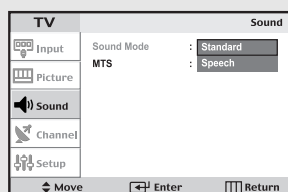
Press the **UP/DOWN ▲ ▼** buttons to select “Sound”, then press the **ENTER**  button.

Press the **UP/DOWN ▲ ▼** buttons to select “Sound mode”, then press the **ENTER**  button.



# 2

Press the **UP/DOWN ▲ ▼** buttons repeatedly to select the “Standard” or “Speech” sound settings. Press **MENU** to exit.



Alternate method:

Simply press the **S.MODE** button on the remote control to select one of the standard sound settings.


- Choose *Standard* for the standard factory settings.
- Choose *Speech* when watching a show that is mostly dialogue (i.e., news).

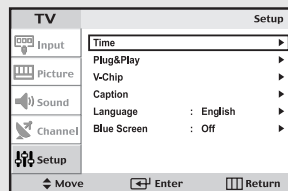
## OPERATION

### Selecting a Menu Language

# 1


Press the **MENU** button to display the menu.

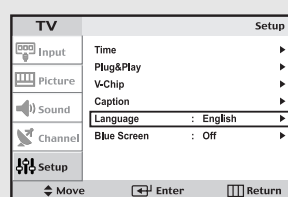
Press the **UP/DOWN ▲▼** buttons to select "Setup", then press the **ENTER**  button.



# 2

Press the **UP/DOWN ▲▼** buttons to select Language.

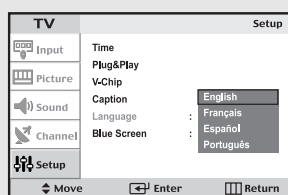
Press the **ENTER**  button.



# 3

Press the **UP/DOWN ▲▼** buttons to select Language; English, Français, Español or Português.

Press the **MENU** button to exit.



## OPERATION


### Setting the Blue Screen Mode

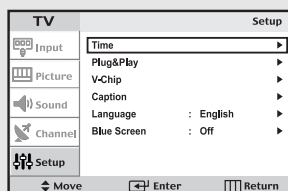
If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background.

If you still wish to view the noisy picture, you must set the “Blue screen” mode to “Off”.


# 1

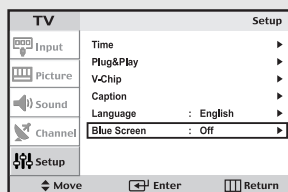
Press the **MENU** button to display the menu.

Press the **UP/DOWN ▲▼** buttons to select "Setup", then press the **ENTER**  button.



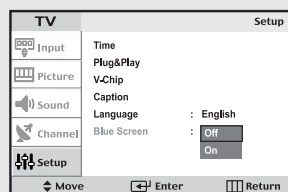
# 2

Press the **UP/DOWN ▲▼** buttons to select "Blue Screen", then press the **ENTER**  button.



# 3

Press the **UP/DOWN ▲▼** buttons to set Blue Screen "Off" or "On". Press the **MENU** button to exit.



◀ Pressing the **UP/DOWN ▲▼** buttons will alternate between "On" and "Off".

## OPERATION

### Fine Tuning Channels


Use fine tuning to manually adjust a particular channel for optimal reception.

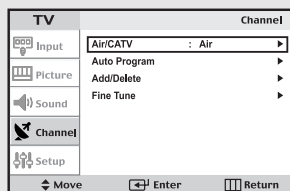
**1**

Select the appropriate channel.


**2**

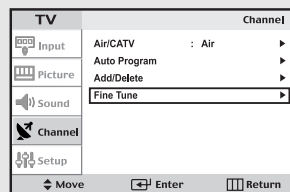
Press the **MENU** button to display the menu.

Press the **UP/DOWN ▲ ▼** buttons twice to select "Channel", then press the **ENTER**  button.




**3**

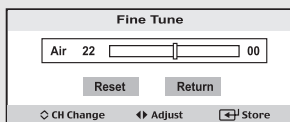
Press the **UP/DOWN ▲ ▼** buttons to select "Fine Tune" then press the **ENTER**  button.



**4**

Press the **LEFT/RIGHT ◀ ▶** buttons to adjust the "Fine tuning" and press the **ENTER**  button.

Press the **MENU** button to exit.



◀ If you do not store the channel in memory, adjustments to the settings are applied but are not saved. Adjustments return to their original settings once you move to another channel. User-adjusted channels are marked with an asterisk "\*" on the right-hand side of the channel number in the channel banner.

## OPERATION

### Changing the Screen Size

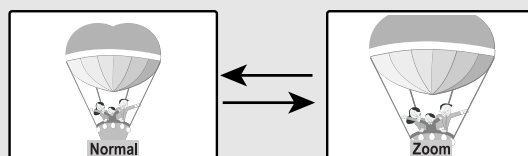
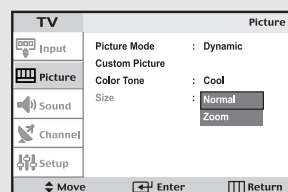
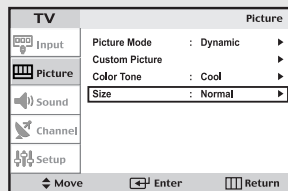
#### 1

Press the **MENU** button to display the menu.

Press the **UP/DOWN ▲ ▼** buttons to select "Picture", then press the **ENTER** button.

Press the **UP/DOWN ▲ ▼** buttons to select "Size", then press the **ENTER** button.

Press the **UP/DOWN ▲ ▼** buttons to select Normal or Zoom. Press **MENU** to exit.



- You can also set these options simply by pressing the P.SIZE (Picture SIZE) button.
- Normal : Sets the picture to 4:3 normal mode.  
This is the standard TV screen size.
- Zoom : Magnifies the size of the picture on screen.

### Freezing the Picture

#### 1

Press the **STILL** button to freeze a moving picture.

- Not available if V-Chip is turned on.
- Normal sound will still be heard.

Press again to cancel.



## OPERATION

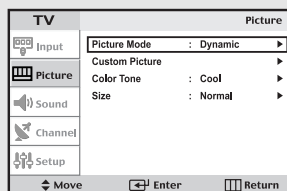
### Adjusting the Color Tone

You can change the color of the entire screen according to your preference.

#### 1

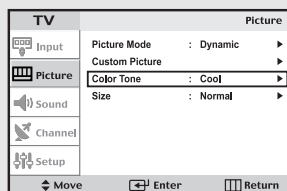
Press the **MENU** button to display the menu.

Press the **UP/DOWN ▲▼** buttons to select "Picture", then press the **ENTER** button.



#### 2

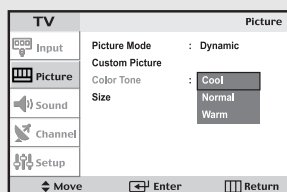
Press the **UP/DOWN ▲▼** buttons to select "Color Tone", then press the **ENTER** button.



#### 3

Press the **UP/DOWN ▲▼** buttons to select Color Tone.

Press the **MENU** button to exit.



◀ You can select "Normal", "Warm", and "Cool" color tones according to personal preference.

## OPERATION

### To select the Sound option

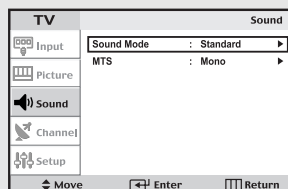
If you live in an area that has poor reception, you may hear noise and experience poor sound quality when watching a program in Stereo.

If this occurs, press the MTS button and select "Mono".

#### 1

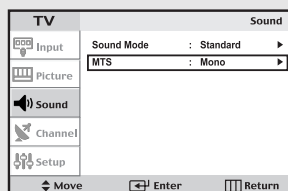
Press the **MENU** button to display the menu.

Press the **UP/DOWN ▲▼** buttons to select "Sound Mode", then press the **ENTER** button.



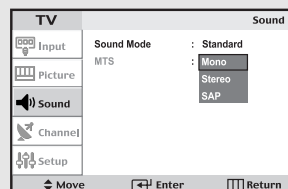
#### 2

Press the **UP/DOWN ▲▼** buttons to select "MTS", then press the **ENTER** button.



#### 3

Press the **UP/DOWN ▲▼** buttons to select "Mono", "Stereo" or "SAP", then press the **ENTER** button.



- Choose *Mono* for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.
- Choose *Stereo* for channels that are broadcasting in stereo.
- Choose *SAP* to listen to the Separate Audio Program, which is usually a foreign-language translation.

You can also change the MTS setting by pressing the "MTS" button on the remote control. (When you change channels, MTS is set to "Stereo" automatically. To listen in 'SAP' or 'Mono', change the MTS setting.)

## OPERATION

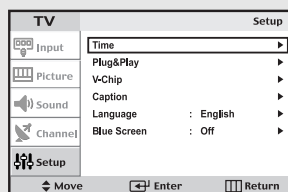
### Setting the Clock

Setting the clock is necessary in order to use the various timer features of the TV. Also, you can check the time while watching the TV. (Just press the INFO button.)

#### 1

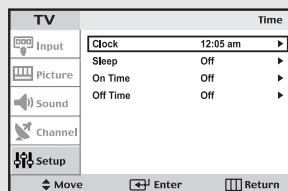
Press the **MENU** button to display the on-screen menu.

Press the **UP/DOWN ▲▼** buttons three times to select "Setup", then press the **ENTER** button.



#### 2

Press the **ENTER** button to select "Clock" and press the **ENTER** button.

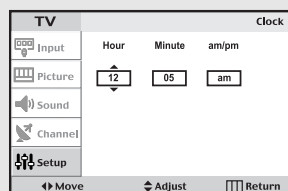


#### 3

Press the **UP/DOWN ▲▼** buttons repeatedly until the correct hour appears.

Press the **LEFT/ RIGHT ◀▶** buttons to select "Minute".

Press the **UP/DOWN ▲▼** buttons until the correct minute appears. Press the **LEFT/ RIGHT ◀▶** buttons to select am/pm and adjust with the **UP/DOWN ▲▼** buttons. Press **MENU** to exit.



◀ Note : You can also set the time using the numeric buttons on the remote.

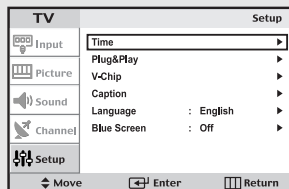
## OPERATION

### Setting the On/Off Timer

#### 1

Press the **MENU** button to display the on-screen menu.

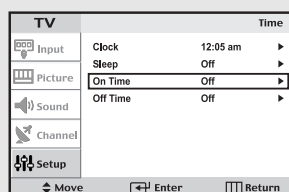
Press the **UP/DOWN ▲ ▼** buttons to select "Setup", then press the **ENTER** button twice.



◀ Before using the timer, you must set the TV's clock.  
(See "Setting the Clock" on page 29)

#### 2

Press the **UP/DOWN ▲ ▼** buttons to select "On Time" or "Off Time", then press the **ENTER** button.

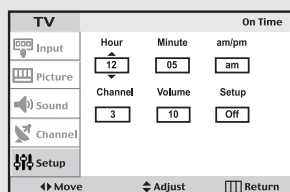


◀ When you set the hours, make sure the correct time of day (am or pm) appears to the right of the time.

#### 3

Press the **UP/DOWN ▲ ▼** buttons repeatedly to select the appropriate hour.

Press the **LEFT/ RIGHT ◀ ▶** buttons repeatedly to select the appropriate minute (i.e., the time when the TV will turn on).

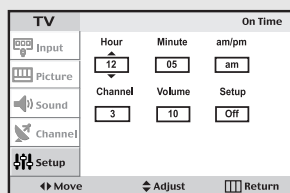


#### 4

Press the **LEFT/ RIGHT ◀ ▶** buttons to select Setup.

Press the **UP/DOWN ▲ ▼** buttons to on-timer "On". (Repeatedly pressing the **UP/DOWN ▲ ▼** buttons will alternate between on and off.)

When finished, press the **ENTER** button.



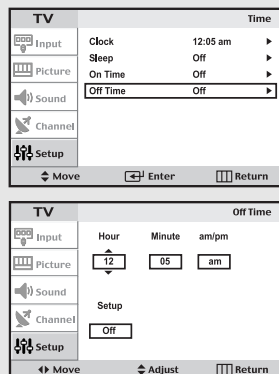
◀ To deactivate the "On time," select "Off" during this step.

## OPERATION

### 5

To set the Off time, press the **UP/DOWN ▲ ▼** buttons to select "Off Time".

Press the **ENTER** button and set the hours and minutes. (Follow the same procedure as in steps 1~4 above.)



### 6

When finished setting the timer, press the **MENU** button to exit.

#### ◀ Auto Power Off

When you set the timer on, your television will be turned off if you do not operate any controls for 3 hours after the TV has been turned on with the 'Timer On' function. 'Auto power off' operates only when the TV has been turned on by the 'Timer on' function.

## Setting the Sleep Timer

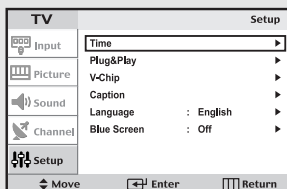
Set the timer for the TV to turn off at the preset time automatically.

### Setting the On/Off Timer Using the Menu

#### 1

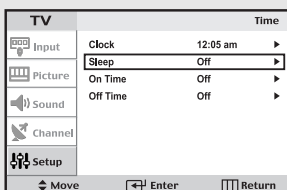
Press the **MENU** button to display the on-screen menu.

Press the **UP/DOWN ▲ ▼** buttons to select "Setup", then press the **ENTER** button twice.



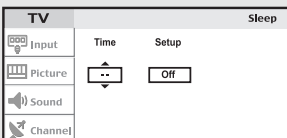
#### 2

Press the **UP/DOWN ▲ ▼** buttons to select "Sleep", then press the **ENTER** button.



#### 3

Press the **UP/DOWN ▲ ▼** buttons repeatedly until the correct time appears. Press the **MENU** button to exit.



#### ◀ Easy Way to Set the Sleep Timer

Press the **SLEEP** button on the remote.

The number on the screen changes from Off • 30 • 60 • 90 • 120 • 150 • 180


## OPERATION

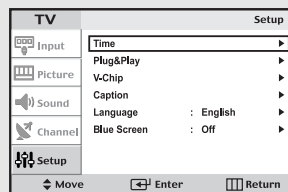
### Viewing Closed Captions

Your TV decodes and displays the closed captions that are broadcast with certain TV shows. These captions are usually subtitles for the hearing impaired or foreign-language translations. All VCRs record the closed caption signal from television programs, so home-recorded video tapes also provide closed captions. Most pre-recorded commercial video tapes provide closed captions as well. Check for the closed caption symbol in your television schedule and on the tape's packaging: **CC**.


**1**

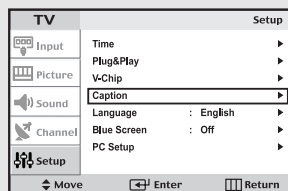
Press the **MENU** button to display the on-screen menu.

Press the **UP/DOWN ▲▼** buttons to select "Setup", then press the **ENTER**  button.




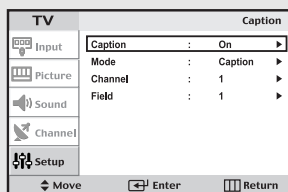
**2**

Press the **UP/DOWN ▲▼** buttons to select "Caption", then press the **ENTER**  button.




**3**

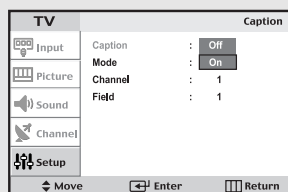
Press the **ENTER**  button.



**4**

Press the **UP/DOWN ▲▼** buttons to set "On/Off", then press the **ENTER**  button.

Press the **MENU** button to exit.



**5**

Depending on the particular broadcast, it might be necessary to make changes to "Channel" and "Filed": Press the **MENU** button to exit the menu.

◀ Different channels and fields display different information: Field 2 carries additional information that supplements the information in Field 1. (For example, Channel 1 may have subtitles in English, while Channel 2 has subtitles in Spanish.)

## OPERATION


### Using the V-Chip

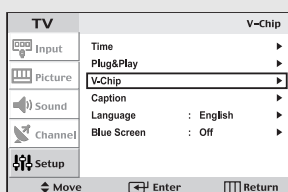
The V-Chip feature automatically locks out programming that is deemed inappropriate for children. The user must first enter a Pin (personal ID number) before any of the V-Chip restrictions can be set up or changed.

#### Setting Up Your Personal ID Number (PIN)


# 1

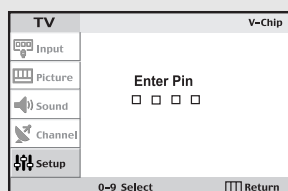
Press the **MENU** button to display the menu.

Press the **UP/DOWN ▲ ▼** buttons to select "Setup", then press the **ENTER**  button.



# 2

Press the **UP/DOWN ▲ ▼** buttons to select "V-Chip", then press the **ENTER**  button.

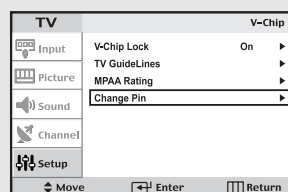


The "Enter Pin" screen will appear. Enter your 4-digit Pin number. Note: The default Pin number for a new TV set is "0-0-0-0."

# 3

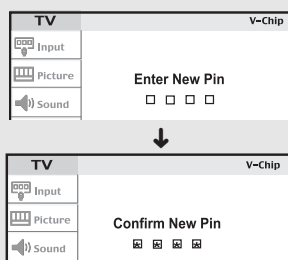
After entering a valid PIN number, the "V-Chip" screen will appear.

Press the **UP/DOWN ▲ ▼** buttons to select "Change Pin."



# 4

Press the **RIGHT ►** button. The Change pin screen will appear. Choose any 4-digits for your Pin and enter them.



As soon as the 4 digits are entered, the "Confirm new Pin" screen appears. Re-enter the same 4 digits. When the Confirm screen disappears, your Pin has been memorized. Press the **MENU** button to exit.


◀ Note: If you forget the Pin, press the remote-control buttons in the following sequence, which resets the pin to 0-0-0-0:  
POWER OFF ► MUTE ► 8 ► 2 ► 4 ► POWER ON.

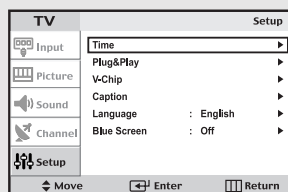
## OPERATION

### How to Enable/Disable the V-Chip


**1**

Press the **MENU** button to display the menu.

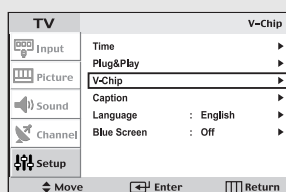
Press the **UP/DOWN ▲ ▼** buttons to select "Setup", then press the **ENTER**  button.



**2**


Press the **UP/DOWN ▲ ▼** buttons to select "V-Chip", then press the **ENTER**  button.

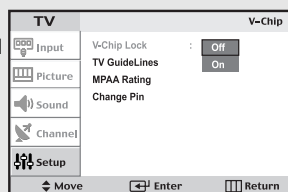
The "Enter Pin" screen will appear. Enter your 4-digit Pin number.



**3**

The "V-Chip" screen will appear, and "V-Chip Lock" will be selected.

To enable the V-Chip feature, press the **ENTER**  button and press the **UP/DOWN ▲ ▼** buttons to select On. (Pressing the **UP/DOWN ▲ ▼** buttons will alternate between On and Off.)




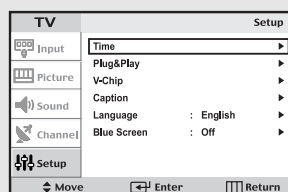
### How to Set up Restrictions Using the "TV guidelines"

First, set up a personal identification number (Pin), and enable the V-Chip. (See previous section.) Parental restrictions can be set up using either of two methods: The TV guidelines or the MPAA rating.

**1**

Press the **MENU** button to display the menu.

Press the **UP/DOWN ▲ ▼** buttons to select "Setup", then press the **ENTER**  button.



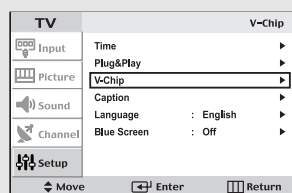


## OPERATION

### 2

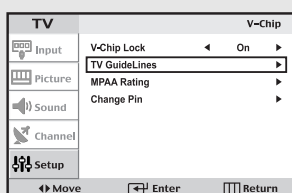
Press the **UP/DOWN ▲▼** buttons to select "V-chip", then press the **ENTER** button.

The "Enter pin" screen will appear. Enter your 4-digit PIN number.



### 3

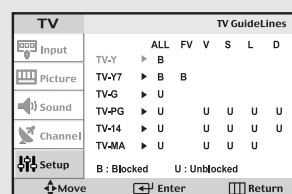
Press the **UP/DOWN ▲▼** buttons to select "TV Guidelines", then press the **ENTER** button.



### 4

The "TV guidelines" screen will appear. Press the **UP/DOWN ▲▼** buttons to select one of the six age-based categories:

TV-Y	Young children
TV-Y7	Children 7 and over
<hr/>	
TV-G	General audience
TV-PG	Parental guidance
TV-14	Viewers 14 and over
TV-MA	Mature audience



◀ Note: These categories consist of two separate groups : TV-Y and TV-Y7 (young children through age 7), and TV-G through TV-MA (everybody else).

The restrictions for these two groups work independently: If a household includes very young children as well as young adults, the TV guidelines must be set up separately for each age group. (See next step.)

### 5

At this point, one of the TV-Ratings is selected.

Press the **RIGHT ►** button: Depending on your existing setup, a letter "U" or "B" will be highlighted. (U= Unblocked, B= Blocked)

While the "U" or "B" is highlighted, press the **ENTER** button to block or unblock the category.

Note 1: The TV-Y7, TV-PG, TV-14 and TV-MA have additional options.

See the next step to change any of the following sub-ratings:

- FV: Fantasy Violence
- D: Sexual suggestive Dialog
- L: Adult Language
- S: Sexual situation
- V: Violence

Note 2: The V-Chip will automatically block certain categories that are "more restrictive." For example, if you block "TV-Y" category, then TV-Y7 will automatically be blocked. Similarly, if you block the TV-G category, then all the categories in the "young adult" group will be blocked (TV-G, TV-PG, TV-14 and TV-MA). The sub-ratings (D, L, S, V) work together similarly. (See next section.)

## OPERATION

### 6


How to set the FV, D, L, S and V sub-ratings.

First, highlight one of these TV-Ratings: TV-Y7, TV-PG, TV-14 or TV-MA

(See Step 4, on previous page).

Next, while the TV-Rating is selected, repeatedly press the **RIGHT** ► button.

This will cycle through the available sub-ratings (FV,L, S, D or V).

A highlighted letter (“U” or “B”) will be displayed for each sub-rating. While the “U” or “B” is highlighted, press the **ENTER**  buttons to change the sub-rating.

Note: The V-chip will automatically block certain categories that are “More restrictive”.

For example, if you block “L” sub-rating in TV-PG, then the “L” sub-ratings in TV-14 and TV-MA will automatically be blocked.

### 7

Press the **MENU** button three times to clear all the screens.


(Or proceed to the next section, and set up additional restrictions based on the MPAA codes).


## How to Set up Restrictions using the MPAA Ratings: G, PG, PG-13, R, NC-17, X

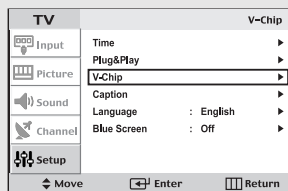
The MPAA rating system uses the Motion Picture Association of America (MPAA) system, and its main application is for movies. (Eventually, movie videocassettes will be encoded with MPAA ratings.) When the V-Chip lock is on, the TV will automatically block any programs that are coded with objectionable ratings (either MPAA or TV-Ratings).

### 1

Press the **MENU** button to display the menu.

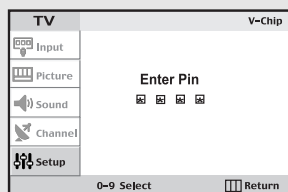
Press the **UP/DOWN** ▲ ▼ buttons to select “Setup”, then press the **ENTER**  button.

Press the **UP/DOWN** ▲ ▼ buttons to select “V-Chip”, then press the **ENTER**  button.



### 2

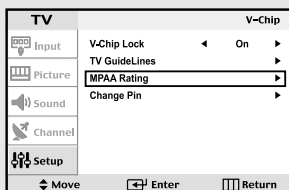
The “Enter pin” screen will appear. Enter your 4-digit Pin number.



# OPERATION

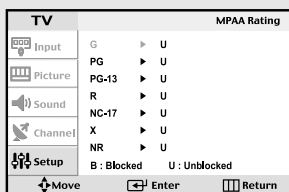
3

Press the **UP/DOWN ▲ ▼** buttons to select “MPAA rating”, then press the **ENTER** button.



4

Repeatedly press the **UP/DOWN ▲ ▼** buttons to select a particular MPAA category. (When a category is selected, its color changes to blue.) Pressing the **UP/DOWN ▲ ▼** buttons will cycle through the MPAA categories:



<b>G</b>	General audience (no restrictions).
<b>PG</b>	Parental guidance suggested.
<b>PG-13</b>	PG-13 (Parents strongly cautioned).
<b>R</b>	R (Restricted. Children under 17 should be accompanied by an adult).
<b>NC-17</b>	No children under age 17.
<b>X</b>	X (Adults only).
<b>NR</b>	Not rated.

Press the **UP/DOWN ▲ ▼** buttons to select a category.

Press the **ENTER** button to select “U” or “B”.

Press the **MENU** button three times to save the settings and to clear all screens.

Note: The V-Chip will automatically block any category that is “more restrictive”.  
For example, if you block the “PG-13” category, then “R”, “NC-17” and “X” will automatically be blocked also.

## How to Reset the TV after the V-Chip Blocks a Channel (“Emergency Escape”)

If the TV is tuned to a restricted channel, the V-Chip will block it. The screen will go blank and the following message will appear: “Excessive rating”.

To resume normal viewing, tune to a different channel using the number buttons. Under certain conditions (depending on the rating of the local TV programs) the V-Chip might lock out all the channels.

In this case, use the Menu button for an “emergency escape”:

Select the V-Chip on the Menu. Enter your PIN number, and press the **ENTER** button to temporarily disable the V-Chip Lock.

# Chapter Five

## TROUBLESHOOTING

If the TV seems to have a problem, first try this list of possible problems and solutions. If none of these troubleshooting tips apply, call your nearest Samsung service center.

### Identifying Problems

Problem	Possible Solution
Poor picture	Try another channel. Adjust the antenna. Check all wire connections.
Poor sound quality.	Try another channel. Adjust the antenna.
No picture or sound.	Try another channel. Press the TV/VIDEO button. Make sure the TV is plugged in. Check the antenna connections.
No sound or sound is too low at maximum volume.	First, check the volume of units connected to your TV (digital broadcasting receiver, DTV, DVD, cable broadcasting receiver, VCR, etc.). Then, adjust the TV volume accordingly.
No color, wrong colors or tints.	Make sure the program is broadcast in color. Adjust the picture settings. Adjust the antenna.
Picture rolls vertically.	Check all wire connections.
The TV operates erratically.	Unplug the TV for 30 seconds, then try operating it again.
The TV won't turn on.	Make sure the wall outlet is working.
Blurred or snowy picture, distorted sound.	Check the direction, location and connections of your antenna. This interference is often due to the use of an indoor antenna.
Remote control malfunctions	Replace the remote control batteries. Clean the upper edge of the remote control (transmission window). Check the battery terminals.

## APPENDIX

### Attaching a Wall or Arm mounting device

The TV supports VESA mounting standard for use with various VESA mounting devices. To install any VESA mounting device, please follow the instructions given.



**1**

Lay the LCD TV face-down on a flat surface with a cushion or other soft materials to protect the screen.

**2**

Remove all cables connected on the TV.

**3**

Remove the four screws and then remove the Stand from the LCD TV. (refer to pictures A&B).

**4**

Re-connect all cables you removed in step 2.

**5**

Now you are ready to install Wall/Arm mounting device .

### Maintenance of Your LCD TV

**WARNING:** To avoid risk of electric shock, do not disassemble the TV cabinet.

Users cannot service the TV.

User maintenance is restricted to cleaning as explained below:

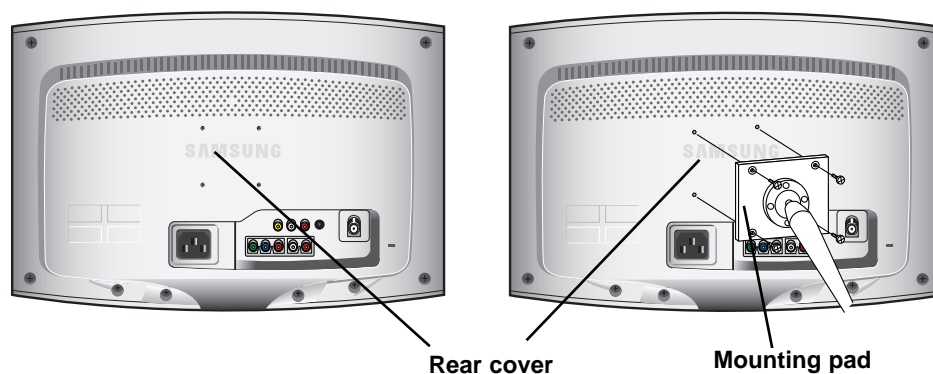
**Unplug the monitor from the power outlet before cleaning.**

- To clean your flat panel display screen, lightly dampen a soft, clean cloth with water or mild detergent. If possible, use a special screen cleaning tissue or solution suitable for the antistatic coating.
- To clean the monitor cabinet, use a cloth lightly dampened with a mild detergent.
- Never use flammable cleaning material to clean your LCD TV or any other electrical apparatus.

## APPENDIX

### Installing VESA compliant mounting devices

Refer to page 39 to remove the base.



Align the mounting interface pad with the holes in the rear cover mounting pad and secure it with the four screws that come with the arm-type base, wall mount hanger or other bases.

#### Wall Mount Instructions

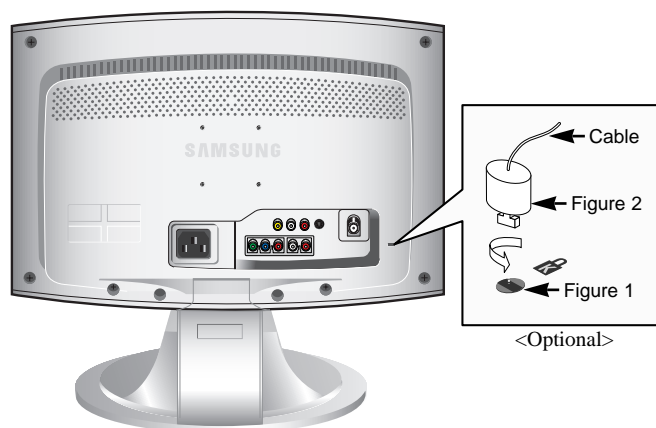
The following instructions apply to a hollow sheet-rock wall only. Tools/Hardware needed - Philips screwdriver, four toggle bolts, 5/8in dia. Drill bit and drill. Contact Ergotron at (800) 888-8458 to purchase the triple pivot direct mount adapter and wall mount bracket kit.

- LTN1535 (15") : No. 47 - 007 - 099 (Pivot direct mount adapter)  
No. 97 - 101 - 003 (Wall mount bracket kit)
- LTN1735 (17") : No. 47 - 007 - 099 (Pivot direct mount adapter)  
No. 97 - 101 - 003 (Wall mount bracket kit)
- LTP2035 (20") : No. 47 - 007 - 099 (Pivot direct mount adapter)  
No. 97 - 101 - 003 (Wall mount bracket kit)

Align the wall mount bracket on the wall at the desired height, making sure that the bracket will be mounted between the wall studs. Mark the four corner openings and drill four 5/8-diameter holes. Assemble the wall mount kit according to the instructions provided with it. Securely attach Ergotron's flat panel, triple pivot direct mount adapter to the back of the TV using the four 4mm, .7 pitch x 10mm screws provided with the arm. Secure the assembly to the wall using four 3/16 by 3-inch long toggle bolts.

## APPENDIX

### Using the Anti-Theft Kensington Lock



The Kensington lock is a device used to physically fix the system when using it in a public place. The locking device has to be purchased separately. The appearance and locking method may differ from the illustration depending on the manufacturer. Please refer to the manual provided with the Kensington lock for proper use.

#### 1

Insert the locking device into the Kensington slot on the LCD TV (Figure 1), and turn it in the locking direction (Figure 2).

#### 2

Connect the Kensington lock cable.

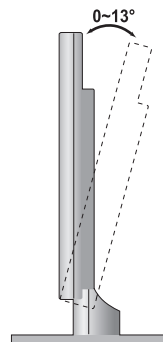
#### 3

Fix the Kensington lock to a desk or a heavy stationary object.

### Retractable Stand

Note: The maximum tilt angle is 13 degrees in the backward direction.

Please do not tilt the TV outside the specified range. Using excessive force to tilt the TV may cause permanent damage to the mechanical part of the stand.



## APPENDIX

### Cleaning and Maintaining Your TV

With proper care, your TV unit will give you many years of service. Please follow these guidelines to get the maximum performance from your TV.

#### Placement

- Do not place the TV near extremely hot, cold, humid or dusty places.
- Do not place the TV near appliances with electric motors that create magnetic fields, such as vacuum cleaners.
- Keep the ventilation openings clear; do not place the TV on a soft surface, such as cloth or paper.
- Place the TV in a vertical position only.

#### Liquids

- Do not handle liquids near or on the TV.  
Liquids that spill into it can cause serious damage.

#### Cabinet

- Never open the cabinet or touch the parts inside.
- Wipe your TV with a clean, dry cloth. Never use water, cleaning fluids, wax, or chemicals.
- Do not put heavy objects on top of the cabinet.

#### Temperature

- If your TV is suddenly moved from a cold to a warm place, unplug the power cord, and allow at least two hours for moisture that may have formed inside the unit to dry completely.

### Using Your TV in Another Country

If you plan to take your TV with you to a foreign country, please be aware of the different television systems that are in use around the world. A TV designed for one system may not work properly with another system due to differences in the TV channel frequencies.



APPENDIX

Specifications

Model	LTN1535	LTN1735	LTP2035
<b>Panel</b> Size Display Size Type Pixel Pitch Viewing Angle	15" Diagonal 304.1 (H) x 228.1 (V) mm TN 0.297(H) x 0.297(V) mm 140/115 (H/V)	17" Diagonal 344.64 (H) x 258.48 (V)mm PVA 0.5385(H) x 0.5385(V) mm 170/170 (H/V)	20.1" Diagonal 408 (H) x 306 (V) mm TN 0.6375 (H) x 0.6375 (V) mm 160/140 (H/V)
<b>Power Supply</b> Input	AC 100 ~ 250V (50/60 Hz)	AC 100 ~ 250V (50/60 Hz)	AC 100 ~ 240V (50/60 Hz)
<b>Power Consumption</b> Normal Stand-By	40 W < 2 W	62 W < 2 W	60 W < 3 W
<b>Dimensions (W x D x H) / Weight</b>  TV Body  With Stand	  470.0 x 57.0 x 313.7 mm 18.50 x 2.24 x 12.35 inch  470.0 x 182.2 x 367.8 mm / 4.0kg 18.50 x 7.17 x 14.48 inch / 8.8lbs	  520.0 x 61.5 x 359.0 mm 20.47 x 2.42 x 14.13 inch  520.0 x 182.2 x 409.5 mm / 5.0kg 20.47 x 7.18 x 16.12 inch / 11.0lbs	  594.0 x 90.0 x 427.0 mm 23.39 x 3.54 x 16.81 inch  594.0 x 252.0 x 489.5 mm / 9.81kg 23.39 x 9.92 x 19.27 inch / 21.62lbs
<b>Environmental Considerations</b> Operating Temperature Operating Humidity Storage Temperature Storage Humidity	50 °F to 104 °F (10 °C to 40 °C) 10% to 80% -13 °F to 113 °F (-25 °C to 45 °C) 5% to 95%		